CLAIMS

Wherein, what is claimed is:

- 1. A method of forming an anhydrous reservoir layer of an electrode assembly in an electrically powered electrotransport agent delivery device, the reservoir layer being adapted to be placed in agent-transmitting relation with a body surface and an electrode in electrical contact with a power source and the reservoir layer, the method comprising the steps of:
 - i. dissolving a beneficial agent in a solvent;
 - ii. applying the solvent and dissolved beneficial agent to a surface of a hydrophilic polymer filtration membrane;
 - iii. removing the solvent from the filtration membrane;
 - iv. disposing the beneficial agent/ filtration membrane within the electrode assembly.
- The method of claim 1 wherein the solvent comprises water and said dissolving step includes dissolving the beneficial agent in water.
- The method of claim 1 wherein the solvent comprises ethanol and said dissolving step includes dissolving the beneficial agent in ethanol.
- 4. The method of claim 1 wherein the solvent comprises isopropanol and said dissolving step includes dissolving the beneficial agent in isopropanol.
- 5. The method of claim 1 wherein said applying step includes applying the solvent and dissolved beneficial agent to the surface of a polyether sulfone filtration membrane.
- 6. The method of claim 1 wherein said applying step includes applying the solvent and dissolved beneficial agent to the surface of a polysulfone filtration membrane.

- 7. The method of claim 1 wherein said removing step includes drying the filtration membrane.
- 8. The method of claim 7 wherein said drying step includes placing the filtration membrane in a forced air oven.
- 9. The method of claim 7 wherein said drying step includes placing the filtration membrane in a vacuum drying oven.
- 10. The method of claim 7 wherein said drying step includes placing the filtration membrane in a desiccator.
- 11. The method of claim 1 wherein said removing step includes lyophilizing the filtration membrane.
- 12. A multilaminate dry state electrode assembly for an electrically powered electrotransport agent delivery device, the electrode assembly having a reservoir layer including a substantially non-hydrated hydratable matrix for containing an agent to be delivered, the reservoir layer being adapted to be placed in agent-transmitting relation with a body surface and an electrode layer in electrical contact with both the reservoir layer and a power source, the reservoir layer formed by the process of:
 - v. dissolving the agent in a solvent;
 - vi. applying the solvent and dissolved agent to a surface of a hydrophilic polymer filtration membrane;
 - vii. removing the solvent from the surface of the hydrophilic polymer filtration membrane;
 - viii. disposing the agent/polymer filtration membrane within the electrode assembly.

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13. The electrode assembly of claim 12 wherein the solvent comprises water.

- 14. The electrode assembly of claim 12 wherein the solvent comprises ethanol.
- 15. The electrode assembly of claim 12 wherein the solvent comprises isopropanol.
- 16. The electrode assembly of claim 12 wherein said hydrophilic polymer filtration membrane comprises a polyether sulfone filtration membrane.
- 17. The electrode assembly of claim 12 wherein said hydrophilic polymer membrane comprises a polysulfone filtration membrane.
- 18. A multilaminate dry state electrode assembly for an electrotransport agent delivery device, said electrode assembly comprising:
 - ix. a reservoir layer including a substantially non-hydrated hydratable matrix adapted to contain an agent to be delivered, the reservoir layer being adapted to be placed in agent-transmitting relation with a body surface, and
 - x. an electrode layer in electrical contact with both the reservoir layer and a power source,
 - xi. wherein said hydratable matrix comprises a hydrophilic polymer filtration membrane.
- 19. The electrode assembly of claim 18 wherein said filtration membrane is microporous.
- 20. The electrode assembly of claim 19 wherein said filtration membrane has a pore size between 0.5 and 10.0 μ .
- 21. The electrode assembly of claim 20 wherein said filtration membrane has a pore size between 0.5 and 1.5 μ .

- 22. The electrode assembly of claim 18 wherein the filtration membrane is selected from the group consisting of acrylic copolymers, glass fiber, nylon, mixed cellulose esters, polyvinylidene fluoride, and polypropylene.
- 23. The electrode assembly of claim 18 wherein said filtration membrane comprises a polyether sulfone filtration membrane.
- 24. The electrode assembly of claim 18 wherein said filtration membrane comprises a polysulfone filtration membrane.
- 25. The electrode assembly of claim 18 further comprising a hydrogel layer between the electrode layer and the matrix
- 26. The electrode assembly of claim 18 further comprising a hydrogel layer on the skin proximal side of the matrix.
- 27. The electrode assembly of claim 18 wherein the filtration membrane comprises a thickness of about 2 10 mils.
- 28. The electrode assembly of claim 27 wherein the thickness is about 3 6 mils.
- 29. The electrode assembly of claim 18 wherein the matrix is imbibed with drug before incorporation into the electrotransport device.